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て入り以び	KEKRLKKDAG RONGLYGGLGEPA
NXUZA	PALGRPSGAPGSFPLEHGG*LAGPEQYGELRPSSPYGVPSSPAALQSLPGPOPLLSSLVYPEAGLGLV*PAV-GLT-D*-TRI-PP
MZUXN	GPPGGPPPMRVL*AGNGPSSDLSTGSSGGYPDFPASPASWLDEVDHAQF

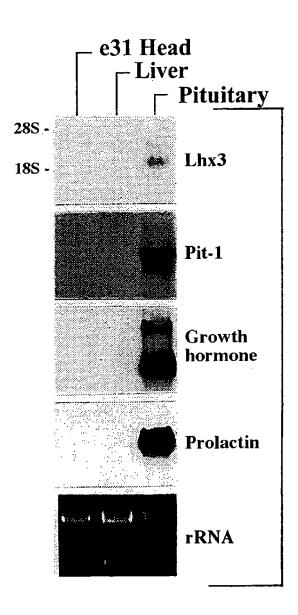


FIG. 2

FIG. 3Ai

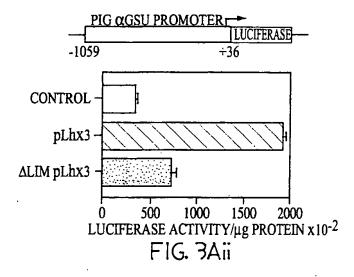


FIG. 3Bi

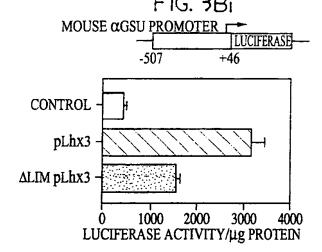


FIG. 3Bii

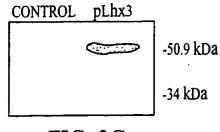
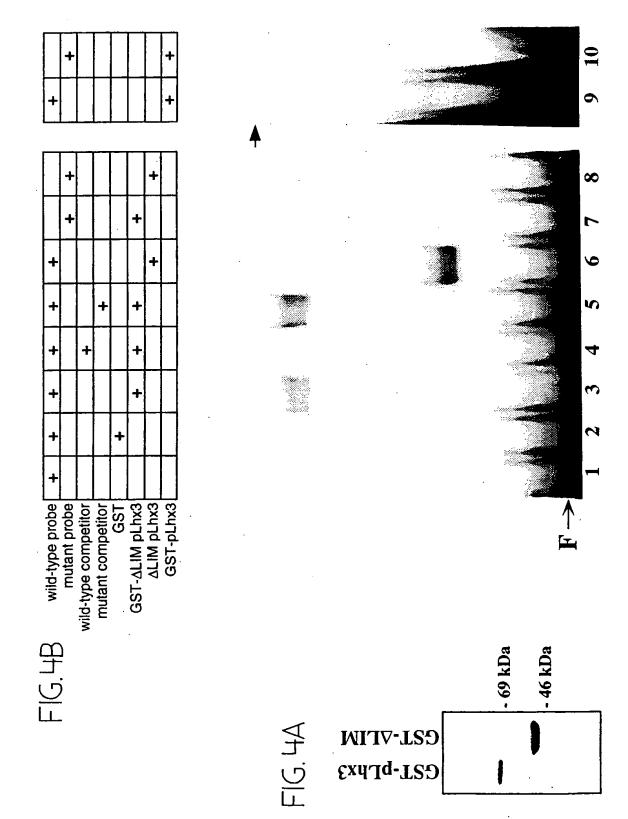


FIG. 3C

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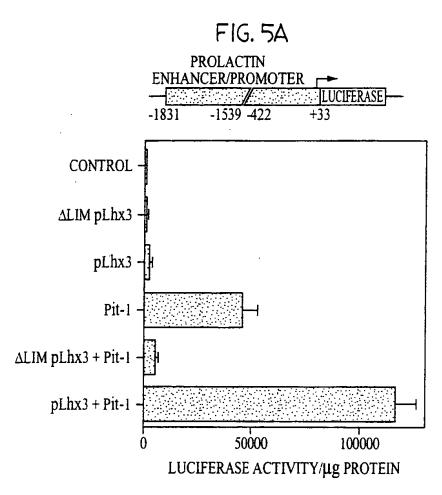
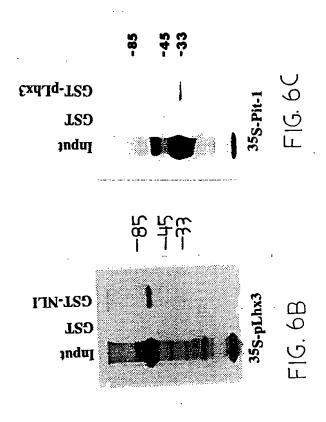


FIG. 5B



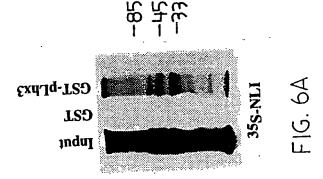


FIG. 7A

61 ccagcacatc ctggaccgct tcatcctcaa ggctctggac cgccactggc acagcaagtg 361 ggacagccgg ctcgtgtgca aggccgacta cgagaccgcc aagcagcgag aggccgaggc 1 ctgggagggg cggccacagg agctgggagg aaaagagatc ccactgtgtg ccggctgcga 121 cctcaagtgc agtgactgcc acacgccgct ggccgagcgc tgcttcagcc gcggagagag 181 cctctactgc aaggacgact tcttcaagcg cttcgggacc aagtgcgccg cgtgccagct 241 gggcatcccg cccacgcagg tggtgcgccg cgcccaggac ttcgtgtacc acctgcactg 301 cttcgcctgc gtcgtgtgca agcggcagct ggccacgggc gacgagttct acctcatgga 421 cacggccaag cggccgcgca cgaccatcac ggccaagcag ctggagacgc tgaagagcgc 481 ctacaacacy tcycccaayc ccycycycca cytycycyay cayctctcct ccyayaccyy 541 cctggacatg cgcgtcgtgc aggtgtggtt ccagaaccgc cgggccaagg aaaagcggct 601 caagaaggac gccggccggc agcgctgggg ccagtacttt cgtaacatga agcgcgcccg 661 cggtggctcc aagtcggaca aggacagcgt ccaggaggag gggcaggaca gtgacgccga 721 ggtctccttc acagacgagc catccatggc cgaaatgggc cctgccaacg gcctctacgg 781 cggcctgggg gagcctgccc ctgccttggg ccggccctcg ggggccccgg gcagcttccc 841 gctggagcac ggaggcctgg cgggcccgga gcagtatgga gagctgcgcc ccagcagccc 901 ctacggtgtc ccctcgtcgc ccgccgccct gcagagcctc cctggccccc agcccctcct 961 ctccagcttg gtgtacccgg aggctggctt ggggcttgtg cccgcggggc ccccaggtgg 1021 gcccccaccc atgagggtgc tggcagggaa cggacccagc tccgacctat ccacggggag

FIG. 7B

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1321 ggactttctc ccggtctcga ggctccttct gggacaaggg gagccacctg gtggctgctc 1261 gtcaccggcg gggcacaggc tgaggactgt ccagcccggc ggccctggcc ccgggcagag 1381 agcaagcett gttttgtaag cagatteete eetttateaa ceaaaattaa etgagtgett 1441 getgetettt etagaeegga gtggteagee eeegaageeg gggagggggg eteteeeeag 1501 cccagagcag cacagccctc agactggaag atgctttaat ttttaaaatt aaaaaataat 1081 cagtgggggc taccccgact tccctgccag tcccgcctcc tggctggacg aggtggatca 1141 cgetcagtte tgaetgagge eccagetecg tggageaeca gacaegagea etgeeetgg 1201 ctgggtggtc gggagccgcg ctctcctttc ccgaagccct gggcctctaa aggacacagg 1561 acgaactgtg cttccatttc ccagcttcct ctgtctagtt ctgcc

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LEHGGLAGPEQYGELRPSSPYGVPSSPAALQSLPGPQPLLSSLVYPEAGLGLVPAG WEGRPQELGGKEIPLCAGCDQHILDRFILKALDRHWHSKCLKCSDCHTPLAERCFS RGESLYCKDDFFKRFGTKCAACQLGIPPTQVVRRAQDFVYHLHCFACVVCKRQLAT GDEFYLMEDSRLVCKADYETAKQREAEATAKRPRTTITAKQLETLKSAYNTSPKPA RHVREQLSSETGLDMRVVQVWFQNRRAKEKRLKKDAGRQRWGQYFRNMKRARGGSK SDKDSVQEEGQDSDAEVSFTDEPSMAEMGPANGLYGGLGEPAPALGRPSGAPGSFP **PPGGPPPMRVLAGNGPSSDLSTGSSGGYPDFPASPASWLDEVDHAQF**

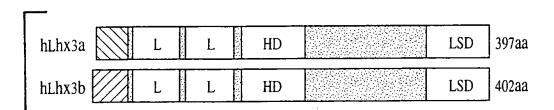


Fig. 9A

1 MLLETGLERDRARPGA--A-AVCTLGGTR 26AE.DCH.E....PG.S.L..FSR.P FIG. 9B Ha 1 1

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1 MEARGELGPARESAGGDLLLALLARRADLRR 31. 1.....D.S......

EIPLCAGCDQHILDRFILKALDRHWHSKCLKCSDCHTPLAERCFSRGESVYCKDDFFKRFGTK LIM Domain 32 12 32 HUZ

LIM Domain

CAACQLGIPPTQVVRRAQDFVYHLHCFACVVCKRQLATGDEFYLMEDSRLVCKADYETAKQREAEA шдΣ

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PSGALGNFSLEHGGLAGPEQYRELRPGSPYGVPPSPAAPQSLPGPQPLLSSLVYPDTSLGLVPSGA 290 271 290 HAM

383 PGGPPPMRVLAGNGPSSDLSTGSSGGYPDFPASPASWLDEVDHAQF Lhx3/LIM3-specific domain

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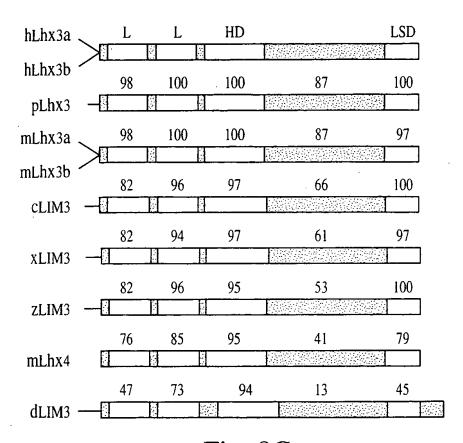


Fig. 9C

FIG. 10A

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CACAATGCTG CTGGAAACGG GGCTCGAGCG CGACCGAGCG AGGCCCGGGG -54 ggggacgctg acctcggagg agcgcgtctc gcgccactcg gcctggtggc

47 CCGCCGCCGT CTGCACCTTG GGCGGGACTC GG

79 GAGATCCCGC TGTGCGCTGG CTGTGACCAG CACATCCTGG ACCGCTTCAT

CCTCAAGGCT CTGGACCGCC ACTGGCACAG CAAGTGTCTC AAGTGCAGCG 129

ACTGCCACAC GCCACTGGCC GAGCGCTGCT TCAGCCGAGG GGAGAGCGTT

TACTGCAAGG ACGACTTTTT CAAGCGCTTC GGGACCAAGT GCGCCGCGTG 229

279 329

TGTACCACCT GCACTGCTTT GCCTGCGTCG TGTGCAAGCG GCAGCTGGCC ACGGGCGACG AGTTCTACCT CATGGAGGAC AGCCGGCTCG TGTGCAAGGC 379

GGACTACGAA ACCGCCAAGC AGCGAGAGGC CGAGGCCACG GCCAAGCGGC CGCGCACGAC CATCACCGCC AAGCAGCTGG AGACGCTGAA GAGCGCTTAC 429 479

AACACCTCGC CCAAGCCGGC GCGCCACGTG CGCGAGCAGC TCTCGTCCGA 529

GACGGGCCTG GACATGCGCG TGGTGCAGGT TTGGTTCCAG AACCGCCGGG CCAAGGAGAA GAGGCTGAAG AAGGACGCCG GCCGGCAGCG CTGGGGGCAG 579 629

CAGCGTTCAG GAGGGGCAGG ACAGCGACGC TGAGGTCTCC TTCCCCGATG TATTTCCGCA ACATGAAGCG CTCCCGCGC GGCTCCAAGT CGGACAAGA

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FIG. 10B

CTTGGGCCTT GTGCCCTCGG GAGCCCCCGG CGGGCCCCCA CCCATGAGGG CCACGCTCAG TTCTGAccca ggcccggctc caccctgcac ctcacacgag tggggccagg gcgtcaaggg agggctggtg ccttcggagc ctcccactgc cataattgtg ctttcacttc ccaggctcca tgtgtcttgg agccgtcacc 779 AGCCTTCCTT GGCGGAAATG GGCCCGGCCA ATGGCCTCTA CGGGAGCTTG TGCTGGCAGG GAACGGACCC AGTTCTGACC TATCCACGGG GAGCAGCGGG GGTTACCCCG ACTTCCCTGC CAGCCCCGCC TCCTGGCTGG ATGAGGTAGA ggagctgccc ctgggtgggc ggctcggggc tgctggggtt tccgaggaag cgaccgcaca gctccctctc tgggggctga gggacccacc tggcccctcc ttgtaagcaa atttctcccc tttattgacc aattaactga gcacttgctg atagcccgag ggctggaaaa acgctttcat ctctaaaaact gagaaatcat ccgaggctcc ctctttaggt cggagattgg ccttgcctgt cgaggcaaga 829 GGGGAACCCA CCCAGGCCTT GGGCCGGCCC TCGGGAGCCC TGGGCAACTT 879 CTCCCTGGAG CATGGAGGCC TGGCAGGCCC AGAGCAGTAC CGAGAGCTGC 929 GTCCCGGCAG CCCCTACGGT GTCCCCCCAT CCCCCGCCGC CCCGCAGAGC CTCCCTGGCC CCCAGCCCCT CCTCTCCAGC CTGGTGTACC CAGACACCAG tctgacacag ggctggcccg ccaggtggcc tcccagcaag ccagcctttt 979 (1029 (1079' 1179 (1129 1479 579 1229 1279 1329 1379 1429

FIG. 10C

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1679 ggctgcagag gcggggacac acctgtgtcc tcctcacccc accccaggcc 1729 cttggtgtcc aggctgcacc cacagatgtc tgttgccaaa cagcctgccc ggagaagggt ggggctcctc tgagcctgcc ctgcctcctc catcagatcc 1979 cgagctacct attggttctg tgaatgttct gtgtctttta tttattctcg tecetgeegg ageeggetet gecageeeca gattgggaag teteeeeget tttgggaaga agtttctggg agatgcccgc agctgtgcgt gccccagaca caaaggctgg cctgtgtgta agtcaaagtc actcccgcaa acctgaatct ggtgatcagc tctttccaag ctcgtgcc 1779 1829 (1879 1929 2029

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- -119 cgcagcgccc agcagcaccc ggagtcgctt ggacgccggt tcggggctat -69 tgcggggtgg cgtcgctggg cccgggaaag ttcgggactg gagagtggcg
 - $^{-19}$ acgeegggeg gegggaeee $^{
 m A}$ TGGAGGCGCG CGGGGAGCTG GGCCCGGCCC
 - 32 GGGAGTCGGC GGGAGGCGAC CTGCTGCTAG CACTGCTGGC GCGGAGGGCA
 - 82 GACCTGCGCCGA
- 94 GAGATCCCGC TGTGCGCTGG CTGTGACCAG CACATCCTGG ACCGCTTCAT
 - 144 CCTCAAGGCT CTGGACCGCC ACTGGCACAG CAAGTGTCTC AAGTGCAGCG
- ACTGCCACAC GCCACTGGCC GAGCGCTGCT TCAGCCGAGG GGAGAGCGTT

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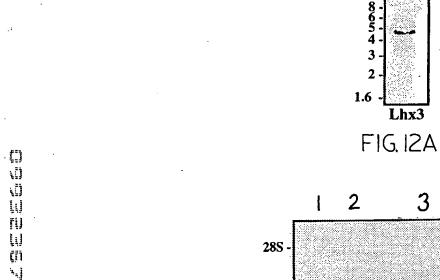
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1044 CTTGGGCCTT GTGCCCTCGG GAGCCCCCGG CGGGCCCCCCA CCCATGAGGG
994 CICCCIGGCC CCCAGCCCCI CCICICCAGC CIGGIGIACC CAGACACCAG
944 GTCCCGGCAG CCCCTACGGT GTCCCCCCAT CCCCCGCCGC CCCGCAGAGC
894 CTCCCTGGAG CATGGAGGCC TGGCAGGCCC AGAGCAGTAC CGAGAGCTGC
844 GGGGAACCCA CCCAGGCCTT GGGCCGGCCC TCGGGAGCCC TGGGCAACTT
794 AGCCTTCCTT GGCGGAAATG GGCCCGGCCA ATGGCCTCTA CGGGAGCTTG
744 CAGCGTTCAG GAGGGCCAGG ACAGCGACGC TGAGGTCTCC TTCCCCGATG
694 TATTTCCGCA ACATGAAGCG CTCCCGCGGC GGCTCCAAGT CGGACAAGGA
644 CCAAGGAGAA GAGGCTGAAG AAGGACGCCG GCCGGCAGCG CTGGGGGCAG
594 GACGGCCTG GACATGCGCG TGGTGCAGGT TTGGTTCCAG AACCGCGGG
544 AACACCTCGC CCAAGCCGGC GCGCCACGTG CGCGAGCAGC TCTCGTCCGA
494 CGCGCACGAC CATCACCGCC AAGCAGCTGG AGACGCTGAA GAGCGCTTAC
444 GGACTACGAA ACCGCCAAGC AGCGAGAGGC CGAGGCCACG GCCAAGCGGC
394 ACGGGCGACG AGTTCTACCT CATGGAGGAC AGCCGGCTCG TGTGCAAGGC
344 TGTACCACCT GCACTGCTTT GCCTGCGTCG TGTGCAAGCG GCAGCTGGCC
294 CCAGCTGGGC ATCCCGCCCA CGCAGGTGGT GCGCCGCGCC
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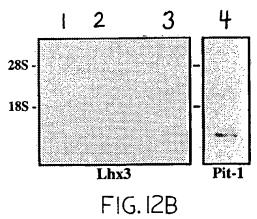
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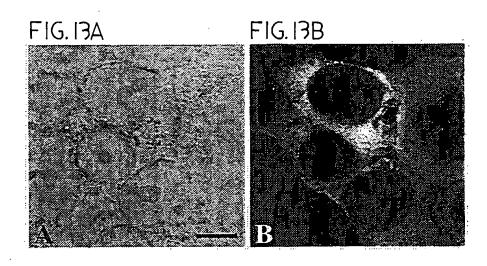
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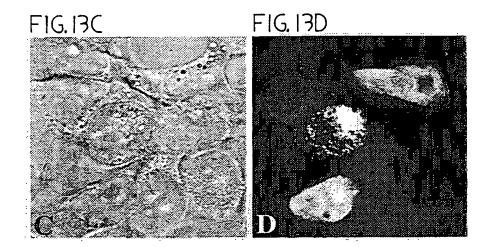




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FIG. I2C





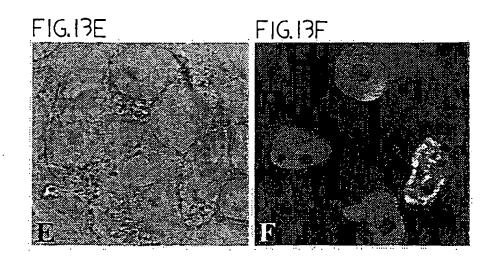


FIG. 14Ai

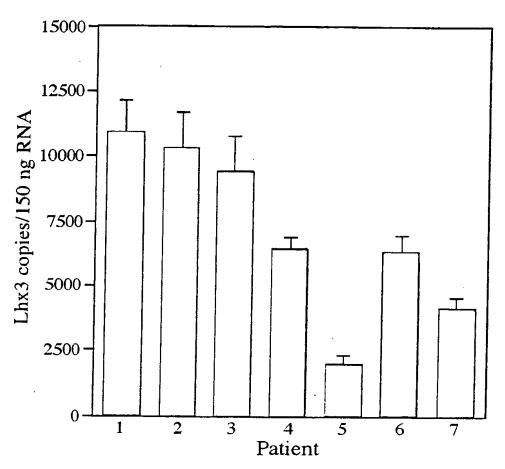
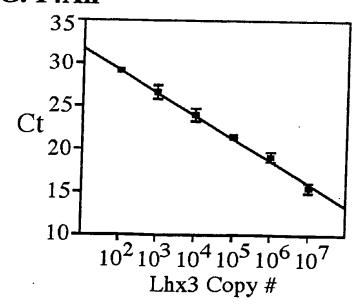
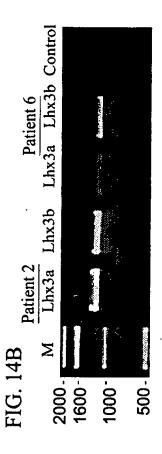
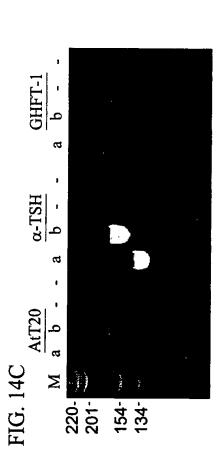
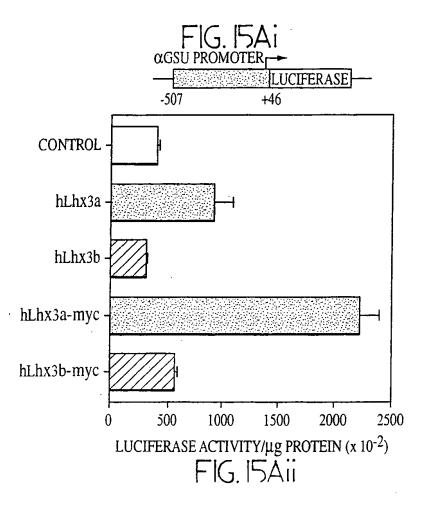


FIG. 14Aii









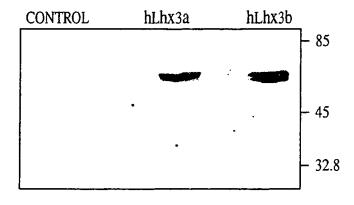
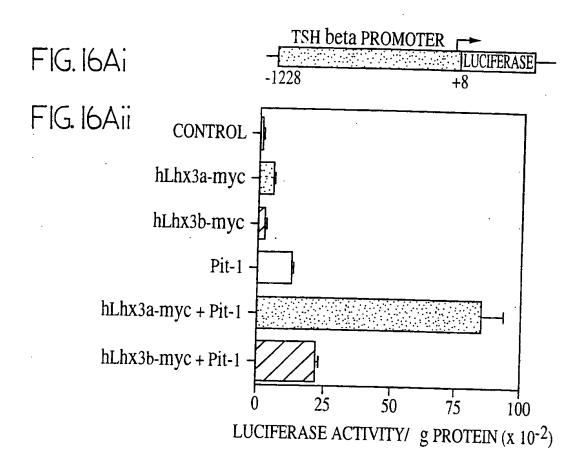
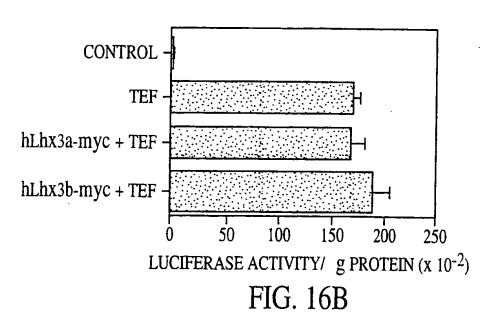
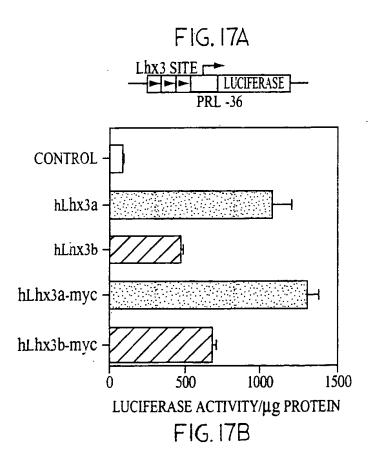


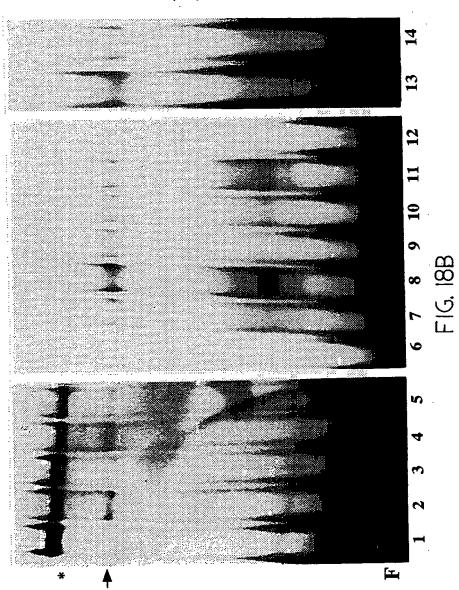
Fig. 15B







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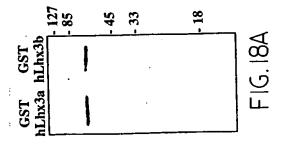


FIG. 19A

tggtctacga ggtgacccag aacttcctcg tgcccaca GAGATCCC GCTGTGCGCT acatttgcga ggagtcccta taaagagtgg ccatgacgct taacatgaag gagacccgat ggggtgcccc agctccaggt gatggtgaag acccgtttcc ctatgtttcc tgccgggctt cagagagcag atccccctgg ggtggggttt tcattttgagc tccacatgca cccttcttgg cactggcaac attttgtaat tgagtattca gcctcgtgaa atggcctggg ctgctttctt gctcacacac atttttagac cgatgtcagt ttccccttag ctcctgacat aggatgcggt gcctgcacac tcccggaact tgcggggcca cttaagctgg ctggggaaga gggtgtgtag ggaaaggagg accctcggc ggccctgagt cctgtggggcc ggaggggagg ctggctcgcg ttgggggtggg aaggtggctt cactgcctcc GGCTGTGACC AGCACATCCT GGACCGCTTC ATCCTCAAGG CTCTGGACCG CCACTGGCAC AGCAAGTGTC TCAAGTGCAG CGACTGCCAC ACGCCACTGG ITGCCTGCGT CGTGTGCAAG CGGCAGCTGG CCACGGGCGA CGAGTTCTAC CTCATGGAGG ACAGCCGGCT CGTGTGCAAG GCGGACTACG AAACCGCCAA CACGCAGGTG GTGCGCCGCG CCCAGGACTT CGTGTACCAC CTGCACTGCT CCGAGCGCTG CTTCAGCCGA GGGGAGAGCG TTTACTGCAA GGACGACTTT ITCAAGCGCT TCGGGACCAA GTGCGCCGCG TGCCAGCTGG GCATCCCGCC ttgatattta ccccggaggc ctgcagacag ggccaccagg agggcagcc

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FIG. 19B

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SCGCCCACG TGCGCGAGCA GCTCTCGTCC GAGACGGGCC TGGACATGCG AGAAGGACGC CGGCCGGCAG CGCTGGGGGC AGTATTTCCG CAACATGAAG TTGGGCCGGC CCTCGGGAGC CCTGGGCAAC TTCTCCCTGG AGCATGGAGG CCTGGCAGGC CCAGAGCAGT ACCGAGAGCT GCGTCCCGGC AGCCCCTACG GCAGCGAGAG GCCGAGGCCA CGGCCAAGCG GCCGCGCACG ACCATCACCG CCAAGCAGCT GGAGACGCTG AAGAGCGCTT ACAACACCTC GCCCAAGCCG GTGTCCCCCC ATCCCCCGCC GCCCCGCAGA GCCTCCCTGG CCCCCAGCCC GGGAGCCCCC GGCGGCCCC CACCCATGAG GGTGCTGGCA GGGAACGGAC GCCAGCCCCG CCTCCTGGCT GGATGAGGTA GACCACGCTC AGTTCTGACC caggcccggc tccaccctgc acctcacacg agggagctgc ccctgggtgg CGCTCCCGCG GCGGCTCCAA GTCGGACAAG GACAGCGTTC AGGAGGGGCA GGACAGCGAC GCTGAGGTCT CCTTCCCCGA TGAGCCTTCC TTGGCGGAAA TGGGCCCGGC CAATGGCCTC TACGGGAGCT TGGGGGAACC CACCCAGGCC CTCCTCTCCA GCCTGGTGTA CCCAGACACC AGCTTGGGGCC TTGTGCCCTC gcggctcggg gctgctgggg tttccgagga agtggggcca gggcgtcaag ggagggctgg tgccttcgga gcctcccact gccgaccgca cagctccctc CGTGGTGCAG GTTTGGTTCC AGAACCGCCG GGCCAAGGAG AAGAGGCTGA CCAGTICIGA CCIAICCACG GGGAGCAGCG GGGGTIACCC CGACTICCCI

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FIG. 19C

taaqtcaaaq tcactcccqc aaacctqaat ctcqaqctac ctattgqttc cgccaggtgg cctcccagca agccagcctt ttttgtaagc aaatttctcc tcccaggctc catgtgtctt ggagccgtca ccccgaggct ccctctttag gtcggagatt ggccttgcct gtcgaggcaa gaggctgcag aggcggggac ctgccagccc cagattggga agtctccccg ctggagaagg gtggggctcc tctgagcctg ccctgcctcc tccatcagat cctttgggaa gaagtttctg tgtcaccttg ctgaggccca gcccagccca gcatagcccg agggctggaa aaacgettte atetetaaaa etgagaaate ateataattg tgettteaet acacctgtgt cctcctcacc ccaccccagg cccttggtgt ccaggctgca ccacagatg tetgttgcca aacageetge eeteeetgee ggageegget ggagatgccc gcagctgtgc gtgccccaga cacaaaggct ggcctgtgtg tctgggggct gagggaccca cctggcccct cctctgacac agggctggcc cctttattga ccaattaact gagcacttgc tgctatttct agacatgaaa

tgtgaatgtt ctgtgtcttt tatttattct cgggtgatca gctctttcca

agctcgtgcc

FIG. 20A

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GGCTGTGACC AGCACATCCT GGACCGCTTC ATCCTCAAGG CTCTGGACCG CCACTGGCAC AGCAAGTGTC TCAAGTGCAG CGACTGCCAC ACGCCACTGG CCGAGCGCTG CTTCAGCCGA GGGGAGAGCG TTTACTGCAA GGACGACTTT CACGCAGGTG GTGCGCCGCG CCCAGGACTT CGTGTACCAC CTGCACTGCT TTGCCTGCGT CGTGTGCAAG CGGCAGCTGG CCACGGGCGA CGAGTTCTAC TTCAAGCGCT TCGGGACCAA GTGCGCCGCG TGCCAGCTGG GCATCCCGCC

FIG. 20B

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SCAGCGAGAG GCCGAGGCCA CGGCCAAGCG GCCGCGCACG ACCATCACCG CCAAGCAGCT GGAGACGCTG AAGAGCGCTTT ACAACACCTC GCCCAAGCCG 3CGCGCCACG TGCGCGAGCA GCTCTCGTCC GAGACGGGCC TGGACATGCG CGTGGTGCAG GTTTGGTTCC AGAACCGCCG GGCCAAGGAG AAGAGGCTGA AGAAGGACGC CGGCCGGCAG CGCTGGGGGC AGTATTTCCG CAACATGAAG CECTOCOGOG GOGGOTOCAA GIOGGACAAG GACAGOGITO AGGAGGGGOA GGACAGCGAC GCTGAGGTCT CCTTCCCCGA TGAGCCTTCC TTGGCGGAAA TGGGCCCGGC CAATGGCCTC TACGGGAGCT TGGGGGAACC CACCCAGGCC TIGGGCCGGC CCICGGGAGC CCIGGGCAAC IICICCCTGG AGCAIGGAGG CCTGGCAGGC CCAGAGCAGT ACCGAGAGCT GCGTCCCGGC AGCCCCTACG STGTCCCCCC ATCCCCCCCC GCCCCGCAGA GCCTCCCTGG CCCCCAGCCC CICCICICCA GCCIGGIGIA CCCAGACACC AGCITGGGCC TIGIGCCCIC GGGAGCCCCC GGCGGCCCC CACCCATGAG GGTGCTGGCA GGGAACGGAC CCAGTICIGA CCIAICCACG GGGAGCAGCG GGGGIIACCC CGACTICCCI GCCAGCCCCG CCTCCTGGCT GGATGAGGTA GACCACGCTC AGTTCTGACC caggecegge tecaceetge aceteacaeg agggagetge eeetgggtgg gcggctcggg gctgctgggg tttccgagga agtggggcca gggcgtcaag CTCATGGAGG ACAGCCGGCT CGTGTGCAAG GCGGACTACG AAACCGCCAA

FIG. 20C

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FIG. 21A

gcacggcctg ggcactgcct tccagaggct gcatgccaga agGAGATCCC GCTGTGCGCT AGAAGGACGC CGGCCGGCAG CGCTGGGGGC AGTATTTCCG CAACATGAAG GGACAGCGAC GCTGAGGTCT CCTTCCCCGA TGAGCCTTCC TTGGCGGAAA TTGGGCCGGC CCTCGGGAGC CCTGGGCAAC TTCTCCCTGG AGCATGGAGG CCAAGCAGCT GGAGACGCTG AAGAGCGCTT ACAACACCTC GCCCAAGCCG SCECECCACE TECECEAGCA ECTCTCETCC GAGACGGGCC TGGACATGCG CECTCCCGCG GCGCCTCCAA GTCGGACAAG GACAGCGTTC AGGAGGGGCA TGGGCCCGGC CAATGGCCTC TACGGGAGCT TGGGGGAACC CACCCAGGCC CCACTGGCAC AGCAAGTGTC TCAAGTGCAG CGACTGCCAC ACGCCACTGG SCAGCGAGAG GCCGAGGCCA CGGCCAAGCG GCCGCGCACG ACCATCACCG CGTGGTGCAG GTTTGGTTCC AGAACCGCCG GGCCAAGGAG AAGAGGCTGA CACGCAGGTG GTGCGCCGCG CCCAGGACTT CGTGTACCAC CTGCACTGCT TIGCCIGCGI CGIGIGCAAG CGGCAGCIGG CCACGGGCGA CGAGIICIAC CTCATGGAGG ACAGCCGGCT CGTGTGCAAG GCGGACTACG AAACCGCCAA gccccagtga gccctgggct ggaggtgatc acgcatgggg ctgccccggg GGCTGTGACC AGCACATCCT GGACCGCTTC ATCCTCAAGG CTCTGGACCG CCGAGCGCTG CTTCAGCCGA GGGGAGAGCG TTTACTGCAA GGACGACTTT TTCAAGCGCT TCGGGACCAA GTGCGCCGCG TGCCAGCTGG GCATCCCGCC

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FIG. 21B

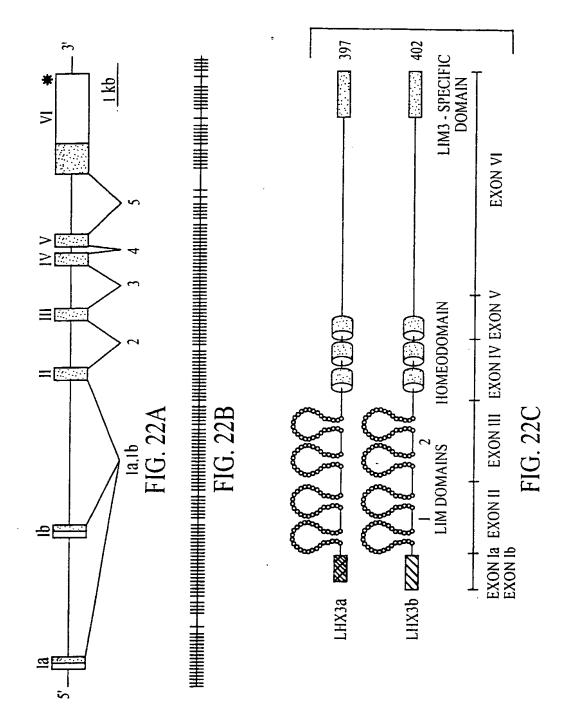
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CCTGGCAGGC CCAGAGCAGT ACCGAGAGCT GCGTCCCGGC AGCCCCTACG STGTCCCCCC ATCCCCCGCC GCCCCGCAGA GCCTCCCTGG CCCCCAGCCC CTCCTCTCCA GCCTGGTGTA CCCAGACACC AGCTTGGGCC TTGTGCCCTC SGGAGCCCCC GGCGGCCCC CACCCATGAG GGTGCTGGCA GGGAACGGAC GCCAGCCCCG CCTCCTGGCT GGATGAGGTA GACCACGCTC AGTTCTGA_{CC} caggcccggc tccaccctgc acctcacacg agggagctgc ccctgggtgg ggagggctgg tgccttcgga gcctcccact gccgaccgca cagctccctc CCAGTICTGA CCTAICCACG GGGAGCAGCG GGGGTIACCC CGACTICCCI gcggctcggg gctgctgggg tttccgagga agtggggcca gggcgtcaag tctgggggct gagggaccca cctggcccct cctctgacac agggctggcc cgccaggtgg cctcccagca agccagcctt ttttgtaagc aaatttctcc cctttattga ccaattaact gagcacttgc tgctatttct agacatgaaa tgtcaccttg ctgaggccca gcccagccca gcatagcccg agggctggaa aaacgctttc atctctaaaa ctgagaaatc atcataattg tgctttcact tcccaggctc catgtgtctt ggagccgtca ccccgaggct ccctctttag gtcggagatt ggccttgcct gtcgaggcaa gaggctgcag aggcggggac acacctgtgt cctcctcacc ccaccccagg cccttggtgt ccaggctgca cccacagatg tctgttgcca aacagcctgc cctccctgcc ggagccggct

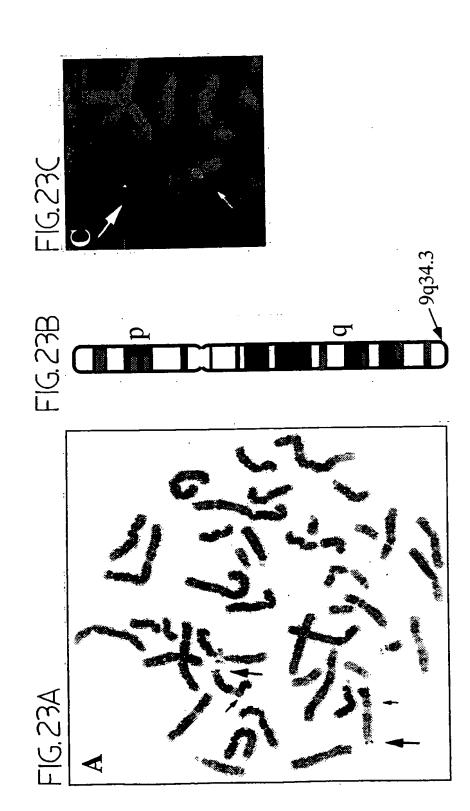
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FIG. 21C

ctgccagccc cagattggga agtctccccg ctggagaagg gtggggctcc taagtcaaag tcactcccgc aaacctgaat ctcgagctac ctattggttc tgtgaatgtt ctgtgtcttt tatttattct cgggtgatca gctctttcca tctgagcctg ccctgcctcc tccatcagat cctttgggaa gaagtttctg ggagatgccc gcagctgtgc gtgccccaga cacaaaggct ggcctgtgtg agctcgtgcc



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- 1 MLLETGLERD RARPGAAAVC TLGGTR
- EIPLCAGCDQ HILDRFILKA LDRHWHSKCL KCSDCHTPLA ERCFSRGESV

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- YCKDDFFKRF GTKCAACQLG I PPTQVVRRA QDFVYHLHCF ACVVCKRQLA
- TGDEFYLMED SRLVCKADYE TAKQREAEAT AKRPRTTITA KQLETLKSAY 127
 - <u>NTSPKPARHV REQLSSETGL DMRVVQVWFQ NRRAKEKRLK KDAGRQRWGQ</u> 177
- YFRNMKRSRG GSKSDKDSVQ EGQDSDAEVS FPDEPSLAEMGPANGLYGSL 227
 - LPGPQPLLSS LVYPDTSLGL VPSGAPGGPP PMRVLAGNGP SSDLSTGSSG GEPTQALGRP SGALGNFSLE HGGLAGPEQY RELRPGSPYG VPPSPAAPQS 277 (

FIG. 25

SYPDFPASPA SWLDEVDHAO F*

- 1 MEARGELGPA RESAGGDLLL ALLARRADLR R
- 32 EIPLCAGCDQ HILDRFILKA LDRHWHSKCL KCSDCHTPLA ERCFSRGESV
- YCKDDFFKRF GTKCAACQLG IPPTQVVRRA QDFVYHLHCF ACVVCKRQLA TGDEFYLMED SRLVCKADYE TAKQREAEAT AKRPRTTITA KQLETLKSAY . 88 132
 - NTSPKPARHV REQLSSETGL DMRVVQVWFQ NRRAKEKRLK KDAGRQRWGQ 182
- YFRNMKRSRG GSKSDKDSVQ EGQDSDAEVS FPDEPSLAEM GPANGLYGSL 232
- LPGPQPLLSS LVYPDTSLGL VPSGAPGGPP PMRVLAGNGP SSDLSTGSSG GEPTQALGRP SGALGNFSLE HGGLAGPEQY RELRPGSPYG VPPSPAAPQS 282 332

 - GYPDFPASPA SWLDEVDHAQ F* 382

FIG. 264

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101 cacaATGCTG CTGGAAACGG GGCTCGAGCG CGACCGAGCG AGGCCCGGGG CCGCCCCCT CTGCACCTTG GGCGGACTC GGGgtaagcc ccagcaggac tgcagggcca gcggccaggc aaagaaagtc ccgccgctct gcaggcggga ggagggcctg acgctggcct gcaagagtgc gggacagcgg ttggagtgga gccgaccaag gggtgctagg ttcccccggt gaccagtgcc cgtcagctct tgcacacagc ccggcccagg tctctggacc ccacagcagg ggacccaagc cttgtgtctc ccgcctgaac caccctcccc aagggccatt ccatcaccac ggacgctggg aaataatgga ggcattgttg gagggctggc cagatgccag cagggtgggc cgcctcctta acctggcgcc gccccttccc cagtcctgcc acacacgacc cctgatcgct tcggcagcag ctgacactca gccacctgca gctgcatggg ccactgctca aaacggacac atcggacctg ctgggagcta ggagggaggg actgtggttt cttgtgccca tccttctggg cctggggccct 51 ggggacgctg acctcggagg agcgcgtctc gcgccactcg gcctggtggc actgaggaca gaaacggcaa gggcggcaga ggcgcgagga agggggftgcg cacagagatg gaaactgcag agagtgagtt tccagatccc agggtggcgg ggcccctaga aaaaaagggg gcatcgcagg cacagctggg gggcgatggg cccagcacag cccgcacaca ctcggctttg cacccgcgtg tccttgccct ggcccttctt gggtaacaag tgctgtgcaa agtgaagggg cagaaagctg 1 ggcacgagcc ccgcacgacg cggcgggact tggggagcccc gaaccctcca 201 301 351 401 451 501 551 651 801 601

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tttcggggttg agctcccgcc gaccatctgc tgctcccgag gccaaacctc gggccctccc ttaccggtgc ccgccctcgg gccgggcacg cggggcggcc tctgggcacc gcaggtcccg gcgcaaaggc gctcagagtc cgcagtggcc egggetggte tecgegaeee eeggeeeege eeegeeeege ggeeeegeee ctgggggcaag aggctgaaat atcaggtaag ggaccgtgtt ccaatggagc cggagtgctg ggggctggaa atggaaggtg tgccctgggg cttccccagc teggececte acgaecegag gtettggetg egtgtecagg acaeagagec tgttctctctct caaggattgc ccttcctccc tgagccgtcc ggggccgcag ttccaggggt ggagcccaga agcctgttag catctgggat cggtccggca agcggcggga ggaccctgct gccttctcga ccctctccc gggaacctta gcgcaggaag ctgcggggcc gggacgaacg ctggcgggaa gccctgacct 951 taaagctcac agtccagaag ccataggcag agtggacaga gtattgctgt 1001 gagacccaca gggagagaggga cctgcaggat ggcatcagcc cctggtcccc aagtcctgtg ctgccgaggg ccacccactg ctgtgttctt ccccgggtgg tecetetgee tgcaaggaca ggtgggttet ggagagetea eetgtgtgtgga ccttgcggtt ccggtacgca gccctcggcg ccacactcac cccttctgcg gccctcctgg cgtgtgctcc agctcaggcc tctgcctctg gcccgctccg caaccettee tgtgtgttte tgegeaetge eagggeaeee etgetttgee ctgcccaggg ctggtgctgg cccagggccc tctgggcagg ggtgggtgcg 1501 1351 1401 1551

FIG. 26C

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gagtggcgac gccgggcggc gggacccATG GAGGCGCGCG GGGAGCTGGG caggagctag aggatctggg cgggagtggg cgcgaggacc ccggaacgtc tgtcagggag tgagtgaggt tgtggcactg cgctgctccg gccagggagc tctcggggggt ccaggggtggg cttaggagac ctctgcagcc cggagccagc tccctgggct ggaggaggcg cagggagcag tggcggggca gtgaccacgg gacaggaggg tccccaagaa ggccgcccca gccggactct ttccacgttc cagcggaaca gagtcagatg caggggccaa ggtcgagctg aactccgacc gtcggtctcc ccgaagccag gtttcagcgt ctgcgcccac agacaccgc teggtttate ecegetcagg gecegtetgt aggaaaaage etetettete tcttagggaa cctgggcagt tctcctcgac tcccgggcca ggtggagccg caggatgggg aaggaggccc cggagccagt ggggagtgag agggaccggc CCCGGCCCGG GAGTCGGCGG GAGGCGACCT GCTGCTAGCA CTGCTGGCGC GGAGGGCAGA CCTGCGCCGA Ggtgggtgcc cgggccgagc ggctgcaccg gggagaccag gagatcctca ggcctttccg ggcctggccg cggaggctgg egegeetggg egeeteagee tgtatttgtt geagggeeee tggeetgggt caggececec agettectgg tggcaceact ctagetecea geaetttggt 1951 cccgcgggCg cagcgcccag cagcacccgg agtcgcttgg acgccggttc ggggctattg cggggtggcg tcgctgggcc cgggaaagtt cgggactgga 1901 cccqqccqct ccqccctccq ctcggccaga ggctccgggc cccagggcgg 2001 2101 2201 2251 2301 2401 2451 2501 2351

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FIG. 26D

agagctggcc ggagcgggcg ggctggcgtc caggctccgc cgaccccgcc atccctgaca caggagcccc cgccagggct ggagtcgcca tgcagcgtaa cctcgacgct ccgcacccgg agctgcggtt ttgccggatg cgggggcgcat tcatcgccgg tttcccgcca ctgcgtgggg aggcgcagcc cagttttttc ctaagtgaag agggagtcct cagcccttga cacctggaaa acccgctcac tatttattta tttttcgacg gttcctggga ggggttggcc gcgggggctg gggggcggag agaggaaggg aggaaggagg actgcgcgcc cgcgctcggg ggataggggta gagggagagg agaggggtgg gatggggaagg attttgaaag acgegggege eggeggegag etgeggeega ggegetgtee ggteegeggt gctgaatccg cgctgtgtcg gcctgtcggg ccgccccgct ccgaccgggt cctcgcctgc gatcgctgcc cacgatgggg accccgggcg cgcagcgggt cgccggaggt cgagggagcc ccttcctggt gtctctcacc cactgggaga tgggctggag ccggcggggt ccacagccag ggaggcgggt gcaatatgtc agtaaatccc ggtcccttca gcgggcactc ctctcttcca gagacttttt agactcgagg ctcccacagg gcacccttgg acctccccag tgtggttcct ccagggggcc tgcagtattg aagtggggtg tgggggggcag aagcagcggg aagccagacg tttgagtaac tctgncggtg ttggggggcac ccacgcttga cacaaagcca gtggatgggt ttgtccagtc cactcataag taattttgcg 2851 cggcgggaag ggggttacat ccaggctgtg ggggctcgcg gttccctact 3301 3401 3501 3601

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CAAGTGCAGC GACTGCCACA CGCCACTGGC CGAGCGCTGC TTCAGCCGAG gggaaggtgg cttcactgcc tcctggtcta cgaggtgacc cagaacttcc tegtgeceae agAGATCCCG CTGTGCGCTG GCTGTGACCA GCACATCCTG GGGAGAGCGT TTACTGCAAG GACGACTTTT TCAAqtqaqc cccqaaacct cacctcagtg tgggagcgga gggcacgcct gccccaggga ctcctcccct cacaatcacc aaggccaggc cctcgaagcc tgcgtctctc gcaatcccag gtggggcctc tccatgggtg ctccctgggt ggctgggcct ggctgggaca 3801 gctgcccaat gatggggaag gcattgatat ttaccccgga ggcctgcaga tggccatgac gcttaacatg aaggagaccc gatggggtgc cccagctcca ggtgatggtg aagacccgtt tccctatgtt tcctgccggg cttcagagag cagateceet tggggtgggg tttteatttg agetecaeat geaeeettet tggcactggc aacattttgt aattgagtat tcagcctcgt gaaatggcct gggctgcttt cttgctcaca cacattttta gaccgatgtc agtttcccct ccacttaagc tggctgggga agagggtgtg tagggaaagg aggacccctc ggcagccctg agtcctgtgg gccggagggg aggctggctc gcgttggggtt cccactcctg tcacccaggc agggcaccct gcggcctggc caaattaagg cagggccacc aggcagggca gccacatttg cgaggagtcc ctagaaagag tagctcctga cataggatgc ggtgcctgca cactcccgga acttgcgggg GACCECTICA ICCICAAGGC ICIGGACCGC CACIGGCACA GCAAGIGICI 3901 4401 4301 4001

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FIG. 26F

CCCAGGACTT CGTGTACCAC CTGCACTGCT TTGCCTGCGT CGTGTGCAAG qacqacqctc ccacctttcc tqqtctqaaa aaaatqqqqc tqaqqccacq agtcacggac agacccgcgt cccgaaccgc ttcgttcggt ccgaagtgtg GIGCGCCGCG IGCCAGCIGG GCAICCCGCC CACGCAGGIG GIGCGCCGCG CGGCAGCTGG CCACGGGCGA CGAGTTCTAC CTCATGGAGG ACAGCCGGCT eggetttteg ecectggteg gaattatege ectaaattet tggeegegaa agcagtcatt agagaagata caccctatt tgtaggattc tactggactt gctctggccc agtggccttc atggctccag ctgtggggtg tgagggactg gccccagatg ggtcctctcc ctccggattc accttcccag atccagcatg ggtcctgcag gcaatggcgg ctgggctccc cgaggtcttt ctgagattga cgaccaccct gcagggccgg acagagcctt cctccggggc cgccttccca cttccgcgct gagcccggcc ctgtgcgtcc cgcagGCGCT TCGGGACCAA CGTGTGCAAG GCGGACTACG AAACCGCCAA GCAGCGAGgt cagccgaggg ctcagggggg cgtccggggga aattctctcc ccaagcgctc actaaggggg cctgggctag ggcggtgtag gcagcaggaa gccgaggccg ggaacggcgg 4751 tcagcaagta ttatttcgaa aaaaaagcaa tttattacct aaatcacaga agttcctccg aaattggtga tgttttagtt cctaatgctg gcacccagcg ggttcccttc tcagtgggag tgggcagctc tgccccggcg gccaggctgg ggcagccgct tgccgctctc caacccgctc ggggcgaaat gagcctcgcg 4951 5351 4901 5301 5551

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TTCCAGAACC GCCGGCCCAA GGAGAAGAGG CTGAAGAAGG ACGCCGGCCG CCAAGTCGGA CAAGGACAGC GTTCAGGAGG GGCAGGACAG CGACGCTGAG ttcccatgga gttagtggac tccttaagtt ctactttcaa aagcatttca cttacagaac ctgctccccc agcaccctcc ccgccctggg tggccactcc AGCAGCTGGA GACGCTGAAG AGCGCTTACA ACACCTCGCC CAAGCCGGCG CGCCACGTGC GCGAGCAGCT CTCGTCCGAG ACGGGCCTGG ACATGCGTGT gececegeag ageegggegg eegeteaeee egeeeegeee ecagGTTTGG GTCTCCTTCC CCGgtaggcg gagggatcgc ggagctcggg gggggggacga gegegegteg geggggtege aggggteeea gggageeege ggatetgaat 5701 ggctgggcca tacccacacc cttagaataa aggggagccc gcggggaaat gtgcgatttt agggaaggcg ccgccccgc ccccgcggca gaacccgccc teegeeggeg eeeetteeae eeeageeegg gtgetgeeeg tttttgeeaa tgggcacctg aggccccgac gtccccgcgc cggccggggt gggagggtgg cgcagAGGCC GAGGCCACGG CCAAGCGGCC GCGCACGACC ATCACCGCCA GGTGCAGgtc agcgctcgcc cctgcttccc tcccgcccgc ggccttgggg GCAGCGCTGG GGGCAGTATT TCCGCAACAT GAAGCGCTCC CGCGGCGGCT cagggtgctt ggagaaggga gccaaggctg aaggcggggg cgccgtggag tegeteccag egecegegee ttecgagaag eetgtggggge gggatgggggg gggtccggcc ggggccggag gggctgccgc gcctcaccgc tcgcccgccg 6601 6101 6301 6401 6501 5901 6001 6201 6251 6051 6351

IG. 26H

tgtcatgtgg tgtggggcag ccactctttc tctgacccag gggtgcctcc ggggctggat tatttatttc attctccggg caccggggat gctgcgtccc ctgcctcgtg acccgggcta ctcactcagc cactctggaa ctaaatatcc gaggggcagg gacagccatg ctccaacagt agaaggggcc tgtgctgacc gcctgcagga tgggactctg aggggccgca ggtggagggc aggcgctgac tgagcctctg cttctgttgc agATGAGCCT TCCTTGGCGG AAATGGGCCC GGCCAATGGC CTCTACGGGA GCTTGGGGGA ACCCACCCAG GCCTTGGGCC GGCCCTCGGG AGCCCTGGGC AACTTCTCCC TGGAGCATGG AGGCCTGGCA GGCCCAGAGC AGTACCGAGA GCTGCGTCCC GGCAGCCCCT ACGGTGTCCC gggagggggc tacctgggggt cagggagaga aggttccata cccttctgtg ttgtctgcaa aatgtgggtg gtggtatctg tgcccccttc ctaggctgct gtggggctgg tcctgaaagc ctgggccctg gctgggctgt tcctgactct gatcccacca ggcctgagac acctgggctg actcaggggt gagggcagtg 6701 tececaaget gggegeetae gggetttete atgggggggt gggegtgtee aggeegtete tetggeteet ageeettgea gtgattttta ggagaatggg cagtgcattt cgggaaagac tgagtcgaag tcccagctgc ttggagttgg catctgttga tgcccatcct cagaatgtgg acaagacact ctcttttggg 6651 ggaccactgc ttttcccctg gtggggacac aatccctgtg gcccgacctg 7051 7201 6851

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CCGCCTCCTG GCTGGATGAG GTAGACCACG CTCAGTTCTG Acccaggccc ggetecacee tgeaceteae aegagggage tgeeeetggg tgggeggete ggggctgctg gggtttccga ggaagtgggg ccagggcgtc aagggagggc 8351 tgcctccagc cccaccttcc ccgggagaag ctttccccaa tccccaggtc TGACCTATCC ACGGGGAGCA GCGGGGGTTA CCCCGACTTC CCTGCCAGCC tggtgccttc ggagcctccc actgccgacc gcacagctcc ctctctgggg tggcctccca gcaagccagc cttttttgta agcaaatttc tcccctttat tgaccaatta actgagcact tgctgctatt tctagacatg aaatgtcacc ttgctgaggc ccagcccagc ccagcatagc ccgagggctg gaaaaacgct tgtcttccgg gagaggcccc ctcctctccc cagaccacag ggggcctctc 8401 tctagatcat tctgttctcg agtatcctgt ggaggaggca aaaatgcctg 7601 CCAGCCTGGT GTACCCAGAC ACCAGCTTGG GCCTTGTGCC CTCGGGAGCC CCCGGCGGCC CCCCACCCAT GAGGGTGCTG GCAGGGAACG GACCCAGTTC gctgagggac ccacctggcc cctcctctga cacagggctg gcccgccagg ttcatctcta aaactgagaa atcatcataa ttgtgctttc acttcccagg ctccatgtgt cttggagccg tcaccccgag gctccctctt taggtcggag attggccttg cctgtcgagg caagaggctg cagaggcggg gacacactg 7551 CCCATCCCC GCCGCCCGC AGAGCCTCCC TGGCCCCCAG CCCCTCCTCT 7851 7901

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8501 tcaccccacc ccaggccctt ggtgtccagg ctgcacccac agatgtctgt cctcctccat cagatccttt gggaagagt ttctgggaga tgcccgcagc tcttttattt attctcgggt gatcagctct ttccaagact tcaaaaant 8451 gegecectte tetecaaget caatteteta ageceeteag ggteteetee tgccaaacag cctgccctcc ctgccggagc cggctctgcc agccccagat tgggaagtct ccccgctgga gaagggtggg gctcctctga gcctgcctg tgtgcgtgcc ccagacacaa aggctggcct gtgtgtaagt caaagtcact cccgcaaacc tgaatctcga gctacctatt ggttctgtga atgttctgtg 8851 gtcagttacctcgtgcc 8551 8601

FIG. 27A

atgctgctgg aaacggagct ggcgggcgac cgagatcggc ccggggcccc acttcttcaa gcgcttcggg accaagtgcg ccgcgtgcca gctgggcatc 51 cgcagccgcc gctgtctgca ccttacccgg gactcgggag atcccactgt 101 gtgccggctg cgaccagcac atcctggacc gcttcatcct caaggctctg 151 gaccgccact ggcacagcaa gtgcctcaag tgcagtgact gccacacgcc 201 gctggccgag cgctgcttca gccgcggaga gagcctctac tgcaaggacg ccgcccacgc aggtggtgcg ccgcgcccag gacttcgtgt accacctgca

FIG. 27B

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FIG. 27C

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ggcggccctg gccccgggca gagggacttt ctcccggtct cgaggctcct cagcccagag cagcacagcc ctcagactgg aagatgcttt aatttttaaa 1251 tggctgggtg gtcgggagcc gcgctctcct ttcccgaagc cctgggcctc taaaggacac agggtcaccg gcggggcaca ggctgaggac tgtccagccc tctgggacaa ggggagccac ctggtggctg ctcagcaagc cttgttttgt aagcagattc ctccctttat caaccaaaat taactgagtg cttgctgctc tttctagacc ggagtggtca gcccccgaag ccgggggaggg gggctctccc attaaaaaat aatacgaact gtgcttccat ttcccagctt cctctgtcta gttctgcc 1551 1451 1501 1601 1351 1401 1651

IG. 28

HGGLAGPEQY GELRPSSPYG VPSSPAALQS LPGPQPLLSS LVYPEAGLGL VPAGPPGGPP PMRVLAGNGP SSDLSTGSSG GYPDFPASPA SWLDEVDHAQ 1 MILETELAGD RDRPGAPAAA AVCTLPGTRE IPLCAGCDOH ILDRFILKAL PPTQVVRRAQ DFVYHLHCFA CVVCKRQLAT GDEFYLMEDS RLVCKADYET AKOREAEATA KRPRTTITAK OLETLKSAYN TSPKPARHVR EOLSSETGLD MRVVQVWFQN RRAKEKRLKK DAGRQRWGQY FRNMKRARGG SKSDKDSVQE EGODSDAEVS FTDEPSMAEM GPANGLYGGL GEPAPALGRP SGAPGSFPLE DRHWHSKCLK CSDCHTPLAE RCFSRGESLY CKDDFFKRFG TKCAACQLGI 151 101 251 201 301 351 real could not know a

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IG. 29A

atggaagcgc gcggggagct gggccccagc cgggagtcgg cgggcggcga cgcccaagcc cgcgcgccac gtgcgcgagc agctctcctc cgagaccggc aaagcggctc aagaaaggacg ccggccggca gcgctggggc cagtactttc gtaacatgaa gcgcgcccgc ggtggctcca agtcggacaa ggacagcgtc caggaggagg ggcaggacag tgacgccgag gtctccttca cagacgagcc atccatggcc gaaatgggcc ctgccaacgg cctctacggc ggcctgggggg agcctgcccc tgccttgggc cggccctcgg gggccccggg cagcttcccg acgagttcta cctcatggag gacagccggc tcgtgtgcaa ggccgactac gagaccgcca agcagcgaga ggccgaggcc acggccaagc ggccgcgcac gaccatcacg gccaagcagc tggagacgct gaagagcgcc tacaacacqt ctggacatgc gcgtcgtgca ggtgtggttc cagaaccgcc gggccaagga 51 cctgctgctg gcgctgctgg cgcggaggga ggacctgcgc cgagagatcc gctctggacc gccactggca cagcaagtgc ctcaagtgca gtgactgcca aggacgactt cttcaagcgc ttcgggacca agtgcgccgc gtgccagctg ggcatcccgc ccacgcaggt ggtgcgccgc gcccaggact tcgtgtacca cctgcactgc ttcgcctgcg tcgtgtgcaa gcggcagctg gccacgggcg cactgtgtgc cggctgcgac cagcacatcc tggaccgctt catcctcaag cacgecgetg geegageget getteageeg eggagagage etetaetgea 351 451 501 551 601 401

FIG. 29B

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FIG. 30

ETAKQREAEA TAKRPRTTIT AKQLETLKSA YNTSPKPARH VREQLSSETG 1 MEARGELGPS RESAGGDLLL ALLARREDLR REIPLCAGCD QHILDRFILK 51 ALDRHWHSKC LKCSDCHTPL AERCFSRGES LYCKDDFFKR FGTKCAACQL GIPPTQVVRR AQDFVYHLHC FACVVCKRQL ATGDEFYLME DSRLVCKADY QEEGQDSDAE VSFTDEPSMA EMGPANGLYG GLGEPAPALG RPSGAPGSFP LDMRVVQVWF QNRRAKEKRL KKDAGRQRWG QYFRNMKRAR GGSKSDKDSV LEHGGLAGPE QYGELRPSSP YGVPSSPAAL QSLPGPQPLL SSLVYPEAGL GLVPAGPPGG PPPMRVLAGN GPSSDLSTGS SGGYPDFPAS PASWLDEVDH 151 201 351 301 251